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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/677,134	TAYLOR, STANTON J.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Jean M. Corrielus	2162	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--  
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to AMENDMENT FILED 10/31/2007.
2. ☒ The allowed claim(s) is/are 1,2,10,14-18,23,25,27-33 and 35-48, RENUMBERED.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date <u>10/31/07</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                   | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

  
**JEAN M. CORRIELUS**  
**PRIMARY EXAMINER**

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### **DETAILED ACTION**

1. This office action is in Request for Continued Examination filed on October 31, 2007, in which claims 1, 2, 10, 14-18, 23, 25, 27-33 and 35-48 presented for further examination.

### ***Response to Arguments***

2. Applicant's arguments with respect to claims 1, 2, 10, 14-18, 23, 25, 27-33 and 35-48, filed on October 31, 2007 have been fully considered and are persuasive.

### **EXAMINER'S AMENDMENT**

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Sanders N. Hillis (Reg. No. 45,712) on November 7, 2007.

The application has been amended as follows:

#### **In the claim:**

25. (Currently Amended) The method of claim 24 23 wherein the segmentation parameters comprise an origin, of the majority of the data requests.

27. (Currently Amended) The method of claim ~~26~~ 23 wherein the segmentation parameters comprise determination of a plurality of related subject matter areas.

***Allowable Subject Matter***

4. The present application has been thoroughly reviewed. Upon searching a variety of databases, the examiner respectfully submits that claims 1, 2, 10, 14-18, 23, 25, 27-33 and 35-48 are allowable in light of the terminal disclaimer and in light of the prior art made of record.

***Reason For Allowance***

5. The following is an examiner's Statement of Reasons for Allowance: The present invention is directed to a distributed data in a netcentric computing system that requires some form of distribution strategy to allow efficient and cost effective operation, wherein the distribution strategies is described as a segmented data distribution system and a replicated data distribution system. Segmentation and replication strategies are used individually or together to fulfill the business requirements. In general, data replication produces data that is replicated from data stored in a central database, whereas, data segmentation produces data that is partitioned into segments, that together represent a total data present in the netcentric computing system. The combined use of data replication and data segmentation produces selectively distributed data, which is a predetermined portion of the data that is produced by segmenting the central database and then replicating the segmented portion of the central database for storage in one or more locations, wherein segmentation is a process of dividing the data for the netcentric computing system into multiple pieces, or segments. The segmentation strategy can be horizontal segmentation and vertical segmentation or a combination of both. The vertical segmentation strategy is storing related subject matter areas on different database servers, wherein these segments are often viewed as subject database, since they are located together based on the type

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of data contained therein, not segmentation key or similar master identifier and uses in breaking up a large database into smaller subject areas, whereas a horizontal segmentation strategy vertical segmentation strategy reflects the natural way to partition data that is in line with the way the applications of the enterprise structure their transactions and uses a segmentation key to uniquely identify records in the central database and provide superior solution when the data access model is consistent for the various applications and locations. The closest prior art, Meisl et al., (article entitled, "Parallel synthetic aperture radar processing on workstation"), however, is directed to a similar system for obtaining high resolution images of the earth's surface using a combination of vertical and horizontal partitioning SAR processing strategies in the synthetic Aperture radar signal processing. A vertical partitioning processing is partitioned vertically through the use of pipelining, where the throughput of the processor increases without increasing its latency (see fig.5), whereas, horizontal partitioning divides the data set among the processors, wherein each processor performs essentially identical operations on subsets of the data (see fig.6). However, Meisl either singularly or in combination, fail to anticipate or render obvious the recited features "database located within each of the data stores, wherein the databases in each of the data stores are representative of a segment of data in the netcentric computing system, and wherein the data is horizontally segmented with a segmentation key and also vertically segmented to form the segment of data included in each of the databases, wherein the segmentation key is operable to uniquely define records across the database in each of the data stores". These features, in conjunction with all other limitations of the dependents and independent claims render claims 1, 2, 10, 14-18, 23, 25, 27-33 and 35-48 allowable.

Since allowable subject matter has been indicated, applicant is encouraged to submit

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formal drawings in response to this Office action. The early submission of formal drawings will permit the Office to review the drawings for acceptability and to resolve any informalities remaining therein before the application is passed to issue. This will avoid possible delays in the issue process.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

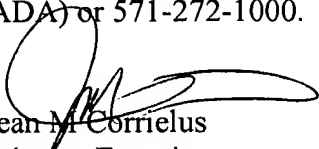
### ***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean M. Corrielus whose telephone number is (571) 272-4032. The examiner can normally be reached on 10 hours shift.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Jean M. Corrielus  
Primary Examiner  
Art Unit 2162

January 7, 2008